(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(10) International Publication Number WO 2010/089535 A3

(43) International Publication Date 12 August 2010 (12.08.2010)

(51) International Patent Classification: *E04B 1/343* (2006.01) *E04H 1/02* (2006.01) *E04H 1/00* (2006.01) *E04H 1/12* (2006.01)

(21) International Application Number:

PCT/GB2010/000175

(22) International Filing Date:

3 February 2010 (03.02.2010)

(25) Filing Language:

English

(26) Publication Language:

English

GB

(30) Priority Data:

0901880.5 5 February 2009 (05.02.2009)

(71) Applicant (for all designated States except US): BLUE PLANET BUILDINGS LIMITED [GB/GB]; Sterling House, St John Street, Mansfield, Nottinghamshire NG18 1QJ (GB).

- (72) Inventor; and
- (75) Inventor/Applicant (for US only): WILSON, Derick [GB/GB]; The White House, 101 Nottingham Road, Kimberley, Nottingham, Nottinghamshire NG16 2ND (GB).
- (74) Agents: LICHOTA, Catherine, Margaret, Timmis et al.; Franks & Co., Carlton House, 26 Billing Road, Northampton, Northamptonshire NN1 5AT (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,

DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

 as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- (88) Date of publication of the international search report:

30 September 2010

(54) Title: MODULAR ASSEMBLY SHELTER

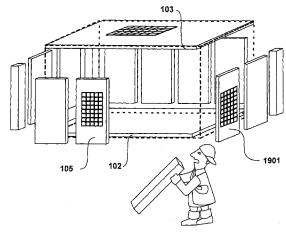


FIGURE 19

(57) Abstract: Modular assembly shelter apparatus (101) for, and a method of, providing a rigid shelter (201) comprising a solar powered electricity supply circuit. Apparatus (101) manually configurable from a portable unit configuration (1701) into an assembled configuration providing a rigid shelter comprising a solar powered electricity supply circuit. A rigid shelter comprising a solar powered electricity supply circuit manually configurable into reusable disassembled parts (1901). Wall elements (105) are releasably connectable between a base element (102) and a roof element (103). Corner elements (104) are used to define a unit (1207). Apparatus (101) comprising a plurality of units (1207, 1208) that may be arranged as a single storey shelter or as a multistorey shelter. Apparatus (101) comprising external shelter elements (103, 105) having solar energy collector cells that form part of the external element. A shipping container arrangement comprising a plurality of stacked portable unit configurations (1701).



INTERNATIONAL SEARCH REPORT

International application No PCT/GB2010/000175

A. CLASSIFICATION OF SUBJECT MATTER INV. E04B1/343 E04H1/00 E04H1/02 E04H1/12 ADD. According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) E04B E04H A01G Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X JP 2008 184801 A (OKAMURA SEIJI: HITACHI 1,6-11, CONSTRUCTION CO LTD) 13,16, 14 August 2008 (2008-08-14) 17,19-23 Υ figures 1-7 1,4,5,8, paragraphs [0033], [0034] 12,14, 15,18 Y DE 10 2004 020023 A1 (AZ IMMOCON GMBH 1,8,12, [DE]) 17 November 2005 (2005-11-17) 14,15 figures 1,2 paragraphs [0022], [0024], [0025], [0028], [0032] Υ US 2003/009954 A1 (BRADLEY CHUCK [US]) 1,8,12, 16 January 2003 (2003-01-16) paragraph [0030] 14, 15, 18 -/--Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 16 July 2010 28/07/2010 Name and mailing address of the ISA/ Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31~70) 340-2040, Brucksch, Carola Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

International application No
PCT/GB2010/000175

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT						
Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to cla						
Υ	DE 103 00 656 B3 (DIETERLE HANS GEORG [DE]) 30 September 2004 (2004-09-30)	4,5				
٨	paragraph [0012] 					
Α .	WO 2008/005307 A2 (BURNS GREGORY [US]) 10 January 2008 (2008-01-10) figure 9	2,3				
1	GB 2 150 170 A (MOOJEN LINDSAY GEOFFREY) 26 June 1985 (1985-06-26) figure 21	2,3				
ļ						
		·				

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/GB2010/000175

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2008184801	Α	14-08-2008	NONE	
DE 102004020023	A1	17-11-2005	NONE	
US 2003009954	A1	16-01-2003	CN 1397695 A MX PA01010147 A TW 518387 B	19-02-2003 21-05-2004 21-01-2003
DE 10300656	В3	30-09-2004	NONE	
WO 2008005307	A2	10-01-2008	US 2010050556 A1	04-03-2010
GB 2150170	Α	26-06-1985	NONE	